

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A ventilation flow control unit comprising:
a plenum;
a flow controller mounted to said plenum; and
an isolation valve fixed to said plenum to selectively block the flow of air between
said plenum and said flow controller; and
a flow sensor mounted to said plenum.
2. (original) A ventilation flow control unit according to Claim 1, wherein said sensor is mounted in a duct section fixed between said plenum and said flow controller.
3. (canceled)
4. (currently amended) A ventilation flow control unit according to Claim 3 1, wherein the leakage of said isolation valve is no more than one percent.
5. (currently amended) A ventilation flow control unit according to Claim 3 1, wherein said isolation valve comprises a damper.
6. (original) A ventilation flow control unit according to Claim 5, wherein said damper is a fixed blade damper.

7. (currently amended) A ventilation flow control unit according to Claim 1, further comprising:

2324
a plenum;

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a flow controller mounted to said plenum;

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a flow sensor mounted to said plenum;

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a thermal coil fixed to said plenum, for affecting the temperature of air passing through said ventilation flow control unit; and

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an automatic valve connected with at least one fluid line of said thermal coil.

8. (original) A ventilation flow control unit according to Claim 7, wherein said thermal coil is mounted to an open end of said plenum opposite said flow controller.

9. (currently amended) A ventilation flow control unit according to Claim 8 7, wherein said at least one fluid line of said thermal coil is mounted to said plenum.

10. (canceled)

11. (currently amended) A ventilation flow control unit according to Claim 10 7, further comprising a protection bracket mounted to protect said automatic valve from damage during transportation and installation of said ventilation flow control unit.

12. (original) A ventilation flow control unit according to Claim 11, wherein said protection bracket includes:

a base defining an opening to facilitate the passage of a valve stem;

a first riser extending from a first edge of said base; and

a second riser extending from a second edge of said base opposite said first edge.

13. (original) A ventilation flow control unit according to Claim 7, wherein said plenum is insulated.

14. (currently amended) A ventilation flow control unit according to Claim 1, further comprising:

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a plenum;
a flow controller mounted to said plenum;
a flow sensor mounted to said plenum; and
an electrical disconnect.

15. (original) A ventilation flow control unit according to Claim 14, wherein said electrical disconnect is mounted on said plenum.

16. (original) A ventilation flow control unit according to Claim 14, further comprising a voltage converter electrically coupled to receive electrical power from said disconnect, for converting a first voltage received from said disconnect to a second lower voltage.

17. (original) A ventilation flow control unit according to Claim 16, wherein said converter provides low voltage to said flow controller.

18. (original) A ventilation flow control unit according to Claim 17 wherein:
said flow control unit further includes a thermal coil with at least one automatic fluid valve; and
said converter provides low voltage to said automatic fluid valve.

19. (original) A ventilation flow control unit according to Claim 16 wherein:
said flow control unit further includes a thermal coil with at least one automatic fluid valve; and
said converter provides low voltage to said automatic fluid valve.

20. (currently amended) A method of installing a ventilation flow control unit comprising:

assembling a flow control unit by mounting a flow controller to a duct, and mounting a flow sensor to said duct, and mounting an isolation valve to said duct to selectively block the flow of air between said duct and said flow controller; and installing said assembled flow control unit in a ventilation system.

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21. (canceled)

22. (currently amended) A method of installing a ventilation flow control unit according to Claim 20, comprising:

assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, wherein said step of assembling said flow control unit further includes and mounting a thermal coil to said duct including securing at least one fluid line of said thermal coil to said duct and mounting an automatic valve in said fluid line; and

installing said assembled flow control unit in a ventilation system.

23. (canceled)

24. (canceled)

25. (currently amended) A method of installing a ventilation flow control unit according to Claim 24 22, wherein said step of mounting an automatic valve in said fluid line includes mounting a protective bracket around said automatic valve.

26. (currently amended) A method of installing a ventilation flow control unit according to Claim 20, wherein, comprising:

assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, and said step of assembling said flow control unit further includes mounting an electrical disconnect to said duct; and
installing said assembled flow control unit in a ventilation system.

27. (original) A method of installing a ventilation flow control unit according to Claim 26, wherein said step of assembling said flow control unit further includes mounting an electrical converter to said duct for converting a voltage from said electrical disconnect to a second lower voltage.

28. (currently amended) A method of installing a ventilation flow control unit according to Claim 20, wherein said step of assembling said flow control unit further includes comprising:

assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, mounting a thermal coil to said duct, and; and mounting an isolation valve to said duct, said isolation valve selectively blocking the flow of air between said duct and said flow controller; and
installing said assembled flow control unit in a ventilation system.

29. (original) A method of installing a ventilation flow control unit according to Claim 28, wherein said step of assembling said flow control unit includes mounting an electrical disconnect to said duct.

30. (original) A method of installing a ventilation flow control unit according to Claim 29, wherein said step of assembling said flow control unit includes mounting an electrical converter to said duct.

31. (original) A method of installing a ventilation flow control unit according to Claim 30, wherein said step of assembling said flow control unit includes electrically coupling said flow controller to said electrical converter.

32. (original) A method of installing a ventilation flow control unit according to Claim 30, wherein said step of assembling said flow control unit includes:

mounting an automatic valve to a fluid line of said thermal coil to control the flow of
fluid through said fluid coil;
electrically coupling said automatic valve to said electrical converter.

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33. (original) A method of installing a ventilation flow control unit according to Claim 32, wherein said step of assembling said flow control unit includes electrically coupling said flow controller to said electrical converter.

34. (original) A ventilation flow control system comprising:

a first flow control unit for controlling the flow of air into a room, said first flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct;

a second flow control unit for controlling the flow of air out of said room, said second flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct; and

a control unit for receiving feedback signals from said sensors and providing control signals to said flow controllers.

35. (original) A ventilation flow control system according to Claim 34, wherein said first flow control unit further includes a thermal coil mounted to said duct of said first flow control unit.

36. (original) A ventilation flow control system according to Claim 34, wherein at least one of said first and second flow control units includes an isolation valve.

37. (original) A ventilation flow control system according to Claim 35, wherein both of said first and second flow control units include an isolation valve.

38. (original) A ventilation flow control system according to Claim 34, wherein at least one of said first and second flow control units include an electrical disconnect.

39. (original) A ventilation flow control system according to Claim 38, wherein said at least one of said first and second flow control units further includes an electrical converter for converting a voltage from said electrical disconnect to a lower voltage.

40. (original) A ventilation flow control system according to Claim 34, further comprising a third flow control unit for controlling the flow of air out of said room, said third flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct.

41. (original) A ventilation flow control system according to Claim 40, wherein said control unit receives feedback signals from and provides control signals to said third flow control unit.

42. (original) A ventilation flow control system according to Claim 41, wherein:
said first flow control unit is mounted in an air supply duct;
said second flow controller is mounted in an air return duct; and
said third flow control unit is mounted in an exhaust duct.